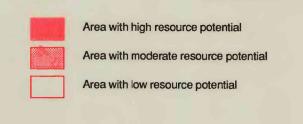


MINERAL RESOURCE POTENTIAL MAP OF THE INDIAN PASS AND PICACHO PEAK WILDERNESS STUDY AREAS, IMPERIAL COUNTY, CALIFORNIA



EXPLANATION

Commodities

Au	Gold
Ag	Silver
Cu	Copper
Pb	Lead
W	Tungsten
Zn	Zinc

LEVELS OF RESOURCE POTENTIAL

- H High mineral resource potential
- U Unknown mineral resource potential
 - LEVELS OF CERTAINTY
- B Data indicate geologic environment, and suggest level of resource potential C Data indicate geologic environment, indicate resource potential, but do not establish activity of resource-forming processes
- D Data define geologic environment and level of resource potential and indicate activity of resource-forming processes in all or part of area

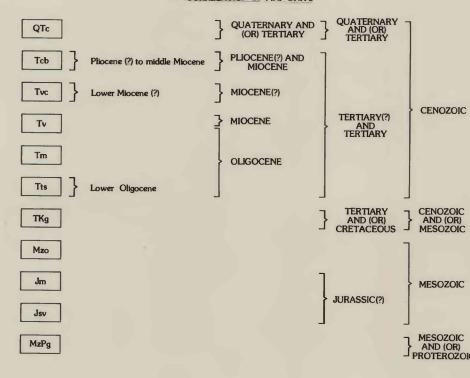
U/A	H/B	H/C	H/D
	HIGH POTENTIAL	HIGH POTENTIAL	HIGH POTENTIAL
UNKNOWN POTENTIAL	M/B MODERATE POTENTIAL	M/C MODERATE POTENTIAL	M/D MODERATE POTENTIAL
	L/B	L/C	L/D LOW POTENTIAL
			N/D NO POTENTIAL
A	В	С	D

MINES, PROSPECTS, AND MINERALIZED OUTCROPS (None have identified resources)

1.	Thedford prospect	20.	Butler prospect
2.	Burslem prospect	21.	Gavilan prospect
3.	Burslem prospect	22.	Gavilan prospect
4.	Burstern prospect	23.	Gavilan prospect
5.	Thedford prospect	24.	Harp prospect
6.	Cinder pit (name unknown)	25.	Wallace prospect
7.	Miller prospect	26.	Wallace prospect
8.	Quartz outcrop	27.	Wallace-Spencer mine
9.	Shear zone outcrop	28.	Wallace prospect
10.	Prospect (name unknown)	29.	Quartz schist outcrop
11.	Pomeroy Dot prospect	30.	Quartz-schist outcrop
12.	Pomeroy prospect	31.	Zimmer prospect
13.	Prospect (name unknown)	32.	Zimmer prospect
14.	Singer Mucho Labor prospect	33.	Wallace prospect
15.	Dumortierite occurrence	34.	Zimmer prospect
16.	Prospect (name unknown)	35.	Quartz-schist outcrop
17.	H.R.J. Research prospect	36.	Quartz-schist outcrop
18	HR.I Research 51 prespect	37	Dumortierite occurrence

Prospect (name unknown)

CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

Conglomerate and sandstone (Quaternary and (or) Tertlary)—Unconsolidated to poorly consolidated conglomerate, sandstone, and siltstone; includes interbedded fluvial conglomerate near Colorado River Conglomerate and basalt (Pliocene? to middle Miocene)—Moderately indurated, heterolithic conglomerate, sandstone, breccia, and interbedded basalt; Crowe (1978) reported a 13.1±2.5-Ma potassium-argon age for basalt

Volcaniclastic conglomerate (Lower Miocene?)—Well-indurated conglomerate and sandstone composed almost exclusively of subrounded to subangular clasts of silicic volcanic rocks in a volcaniclastic matrix

Volcanic and hypabyssal rocks (Miocene and Oligocene)—Silicic and intermediate volcanic hypabyssal rocks and minor volcaniclastic sedimentary rocks; a potassium-argon sanidine age of 26.2±1.6 Ma was reported by Olmsted and others (1973): for welded tuff that is equivalent to the middle part of the unit

Monzogranite (Oligocene)—Fine- to coarse-grained porphyritic monzogranite and minor aplite; correlated with subvolcanic rocks with potassium-argon hornblende, biotite, and sanidine ages between 21 and 26 Ma (Armstrong and Suppe, 1973; Miller and Morton, 1977; Crowe and others, 1979) that are exposed along the length of the Chocolate Mountains Mountains

Tuff and tuffaceous sandstone (Lower Ollgocene)—Thin-bedded white tuff, tuffaceous sandstone and silistone, and a basal regolith of red breccia and conglomerate Granite porphyry (Tertlary and (or) Cretaceous)—Unfoliated to moderately foliated granite porphyry equivalent to the granite of Marcus Wash of Haxel and others (1985)

Orocopia Schist (Upper Mesozoic)—Micaceous quartzofeldspathic schist, interlayered mica schist, and subordinate metabasite, metachert, siliceous marble, and metauitramafic rock; protolith has a Late Jurrasic minimum age (Mukasa and others, 1984)

Monzogranite and diorite (Jurrasic?)—Compositionally heterogeneous diorite intruded by slightly porphyritic biotite monzogranite

Sedimentary and volcanic rocks (Jurrasic?)—Weakly to moderately metamorphosed sedimentary and intermediate and silicic volcanic rocks of the Winterhaven Formation (Haxel and others, 1985) and underlying unnamed ash-flow tuffs; ash-flow tuffs are lithologically similar to quartz porphyry metavolcanic rocks of Early and Middle Jurassic age in Arizona and Sonora, Mexico (Anderson and Silver, 1978; Wright and others, 1981)

Gnelss (Mesozoic and (or) Proterozoic)—Biotite quartzofeldspathic gneiss, less common amphibolite gneiss, minor augen gneiss, rare muscovite gneiss and pegmatite

Contact—Solid where contact located with confidence; dashed where inferred or uncertain Fault—Dashed where approximately located; dotted where concealed

